U.S. Patent Application No.: Not Yet Assigned Docket No.: 27611/39002A

35 U.S.C. §371 of PCT Application No. PCT/US2003/041605

## **AMENDMENTS TO THE CLAIMS**

1. (original) A composition for protecting tissue or an organ of a mammal from damage when isolated from the circulatory system, comprising:

- (a) a perfusion solution; and
- (b) an amount of an amphipathic compound that inhibits metabolism effective to protect the tissue or organ from damage due to tissue anoxia, ischemia, or reperfusion injury.
- 2. (original) The composition of claim 1, wherein the perfusion solution comprises a preservation solution.
- 3. (original) The composition of claim 2, wherein the preservation solution is selected from the group consisting of Krebs-Henseleit solution, University of Wisconsin solution, St. Thomas II solution, Collins solution, and Stanford solution.
- 4. (currently amended) The composition of any of claims 1–3 claim 1, wherein the amount of an amphipathic compound that inhibits metabolism is effective to prevent lactic acidosis.
- 5. (currently amended) The composition of any of claims 1-4 claim 1, wherein the amphipathic compound that inhibits metabolism is selected from the group consisting of bupivacaine, levo-bupivacaine, etidocaine, ropivacaine, and tetracaine.
- 6. (original) The composition of claim 5, wherein the amphipathic compound that inhibits metabolism is bupivacaine.
- 7. (original) The composition of claim 6, wherein the composition comprises 50  $\mu$ M to 2 mM of bupivacaine.
- 8. (currently amended) The composition of any of claims 1-7 claim 1, wherein the organ is selected from the group consisting of brain, heart, lung, kidney, liver, skeletal muscle, and bowel.

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9. (original) The composition of claim 8, wherein the organ is the heart.

10. (currently amended) A method of protecting tissue or an organ of a mammal from damage due to tissue anoxia, ischemia, or reperfusion injury, the method comprising contacting the tissue or organ with an effective amount of the composition of any of claims 1-9 claim 1.

- 11. (original) The method of claim 10, wherein the tissue or organ is contacted prior to, during, or after removal from the mammal.
  - 12. (cancelled)
- 13. (currently amended) The method of any of claims 10-12 claim 10, wherein the mammal is selected from the group consisting of human, pig, and baboon.
  - 14. (cancelled)
- 15. (currently amended) The method of any of claims 10-14 claim 10, further comprising the step of contacting the tissue or organ with an amount of a lipid emulsion effective to reverse the effect of the amphipathic compound that inhibits metabolism on the tissue or organ.
- 16. (original) The method of claim 15, wherein the tissue or organ is contacted with the lipid emulsion prior to, during or after transplantation into a host.
  - 17. (cancelled)
- 18. (currently amended) A method of protecting tissue or an organ of a mammal from damage due to tissue anoxia, ischemia, or reperfusion injury, the method comprising administering an effective amount of the composition of any of claims 1-9 claim 1 to the mammal.
- 19. (original) The method of claim 18, wherein the composition is administered systemically.

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20. (original) The method of claim 18, wherein the composition is administered directly to the tissue or organ.

- 21. (currently amended) The method of any of claims 18-20 claim 18, wherein the tissue anoxia, ischemia, or reperfusion injury is due to isolation of the tissue or organ from the circulatory system.
- 22. (original) The method of claim 21, wherein the tissue anoxia, ischemia, or reperfusion injury is due to interruption of the arterial blood supply occurs during a transplant or other surgery.
- 23. (original) The method of claim 22, wherein the surgery is a cardiopulmonary bypass surgery.
- 24. (currently amended) The method of any of claims 18-23 claim 18, wherein the mammal is human.
- 25. (currently amended) The method of any of claims 18-24 claim 18, further comprising the step of administering an amount of a lipid emulsion effective to reverse the effect of the amphipathic compound on the tissue or organ.
- 26. (original) A method of protecting tissue or an organ from damage due to tissue hypoxia, the method comprising:
- (a) contacting the tissue or organ with an amount of an amphipathic metabolic inhibitor effective to prevent lactic acidosis; and
- (b) administering an amount of a lipid emulsion effective to reverse the effect of the amphipathic metabolic inhibitor on the organ.
- 27. (original) A kit comprising the composition of claim 1 in one or more containers.

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28. (original) The kit of claim 27, further comprising a lipid emulsion in one or more containers.

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- 29. (currently amended) The kit of claim 27 or 28, further comprising a device to administer the composition or the lipid emulsion to a mammal.
- 30. (original) The kit of claim 29, wherein the device is selected from the group consisting of a catheter, a syringe, or a cannula.
- 31. (currently amended) The kit of any of claims 27-29 claim 27, further comprising a programmable device for administering the one or more compositions of the kit.